NiceZyme View of ENZYME: EC 3.2.1.4

Official Name
Cellulase.
Alternative Name(s)
Avicelase.
Beta-1,4-endoglucan hydrolase.
Beta-1,4-glucanase.
Carboxymethyl cellulase.
Celludextrinase.
Endo-1,4-beta-D-glucanase.
Endo-1,4-beta-D-glucanohydrolase.
Endo-1,4-beta-glucanase.
Endoglucanase.
Reaction catalysed
Endohydrolysis of 1,4-beta-D-glucosidic linkages in cellulose, lichenin and cereal beta-D-glucans
Comment(s)
Will also hydrolyze 1,4-linkages in beta-D-glucans also containing 1,3-linkages.
Cross-references

Biochemical Pathways; map number(s)	A4
PROSITE	PDOC00511 ; PDOC00563 ; PDOC00565 ; PDOC00640 ; PDOC00877 ; PDOC51172
BRENDA	3.2.1.4
PUMA2	3.2.1.4
PRIAM enzyme-specific profiles	3.2.1.4
KEGG Ligand Database for Enzyme Nomenclature	3.2.1.4

WEST Search History

Hide Items | Restore | Clear | Cancel

DATE: Monday, July 16, 2007

Hide?	Set Name	Query	Hit Count
		DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ	
☐	L8	composition and L7	34
☐	L7	(detergent or (feed with additive)) and L5	38
☐	L6	(detergent or (feed with additive)) same L5	0
☐	L5	coli same L4	108
☐	L4	express$5 same L3	349
☐	L3	Bacillus same L2	656
☐	L2	(gene or sequence or polynucleotide or clone or recombinant) same L1	6024
☐	L1	(cellulase or endoglucanase or glucanase)	18523

END OF SEARCH HISTORY

=> index bioscience medicine

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 17:14:26 ON 16 JUL 2007

70 FILES IN THE FILE LIST IN STNINDEX

=> S (cellulase or endoglucanase or glucanase)
1 FILE ADISNEWS
5082 FILE AGRICOLA
190 FILE ANABSTR
191 FILE ANTE
48 FILE AQUALINE
421 FILE AQUASCI
3898 FILE BIOENG
14470 FILE BIOSIS
7910 FILE BIOTECHABS
7910 FILE BIOTECHDS
3876 FILE BIOTECHNO
8646 FILE CABA
25567 FILE CAPLUS
2373 FILE CEABA-VTB
110 FILE CIN
312 FILE CONFSCI
206 FILE CROPB
420 FILE CROPU
98 FILE DDFB
61 FILE DDFU
11858 FILE DGENE
707 FILE DISSABS
98 FILE DRUGB
223 FILE DRUGMONOG2
86 FILE DRUGU
36 FILE EMBAL
4884 FILE EMBASE
4039 FILE ESBIOBASE
76 FILE FOREGE
998 FILE FROSTI
3249 FILE FSTA
7060 FILE GENBANK
24 FILE HEALSAFE
2024 FILE IFIPAT
86 FILE IMSPRODUCT
14 FILE KOSMET
5435 FILE LIFESCI
42 FILES SEARCHED...
5004 FILE MEDLINE
353 FILE NTIS
139 FILE OCEAN
7394 FILE PASCAL
90 FILE PCTGEN
31 FILE PHIN
346 FILE PROMT
16 FILE RDISCLOSURE
10643 FILE SCISEARCH
1 FILE SYNTHLINE
3033 FILE TOXCENTER
9284 FILE USPATFULL
1492 FILE USPAT2
11 FILE VETB
409 FILE VETU
75 FILE WATER
4657 FILE WPIDS
25 FILE WPIFV
4657 FILE WPINDEX

17 FILE IPA
32 FILE NAPRALERT
151 FILE NLDB

59 FILES HAVE ONE OR MORE ANSWERS, 70 FILES SEARCHED IN STNINDEX

L1 QUE (CELLULASE OR ENDOGLUCANASE OR GLUCANASE)

=> d rank

F1	25567	CAPLUS
F2	14470	BIOSIS
F3	11858	DGENE
F4	10643	SCISEARCH
F5	9284	USPATFULL
F6	8646	CABA
F7	7910	BIOTECHABS
F8	7910	BIOTECHDS
F9	7394	PASCAL
F10	7060	GENBANK
F11	5435	LIFESCI
F12	5082	AGRICOLA
F13	5004	MEDLINE
F14	4884	EMBASE
F15	4657	WPIDS
F16	4657	WPINDEX
F17	4039	ESBIOBASE
F18	3898	BIOENG
F19	3876	BIOTECHNO
F20	3249	FSTA
F21	3033	TOXCENTER
F22	2373	CEABA-VTB
F23	2024	IFIPAT
F24	1492	USPAT2
F25	998	FROSTI
F26	707	DISSABS
F27	421	AQUASCI
F28	420	CROPU
F29	409	VETU
F30	353	NTIS
F31	346	PROMT
F32	312	CONFSCI
F33	223	DRUGMONOG2
F34	206	CROPB
F35	191	ANTE
F36	190	ANABSTR
F37	151	NLDB
F38	139	OCEAN
F39	110	CIN
F40	98	DDFB
F41	98	DRUGB
F42	90	PCTGEN
F43	86	DRUGU
F44	86	IMSPRODUCT
F45	76	FOREGE
F46	75	WATER
F47	61	DDFU
F48	48	AQUALINE
F49	36	EMBAL
F50	32	NAPRALERT
F51	31	PHIN
F52	25	WPIFV
F53	24	HEALSAFE
F54	17	IPA
F55	16	RDISCLOSURE
F56	14	KOSMET
F57	11	VETB
F58	1	ADISNEWS
F59	1	SYNTHLINE

=> file f1-f2, f4-f7, f11-f15

FILE 'CAPLUS' ENTERED AT 17:15:46 ON 16 JUL 2007
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FILE 'WPIDS' ENTERED AT 17:15:46 ON 16 JUL 2007
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=> S L1
L2 93672 L1

=> S (gene or sequence or polynucleotide or clone or recombinant) (s) L2
L3 14539 (GENE OR SEQUENCE OR POLYNUCLEOTIDE OR CLONE OR RECOMBINANT)
(S) L2

=> S Bacillus (s) L3
L4 1677 BACILLUS (S) L3

=> S express? (s) L4
L5 773 EXPRESS? (S) L4

=> S coli (s) L5
L6 341 COLI (S) L5

=> S composition (s) L6
L7 7 COMPOSITION (S) L6

=> S composition and L6
L8 69 COMPOSITION AND L6

=> s (detergent or (feed (w) additive)) and L8
L9 24 (DETERGENT OR (FEED (W) ADDITIVE)) AND L8

=> dup rem l9
PROCESSING COMPLETED FOR L9
L10 24 DUP REM L9 (0 DUPLICATES REMOVED)

=> D ibib abs L10 1-24

L10 ANSWER 1 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2007:106966 USPATFULL <<LOGINID::20070716>>
TITLE: Novel bacillus bagcel cellulase
INVENTOR(S): Jones, Brian E., Leiden, NETHERLANDS
Grant, William D., Leicestershire, UNITED KINGDOM

Heaphy, Shaun, Leicester, UNITED KINGDOM
Grant, Susan, Leicestershire, UNITED KINGDOM
PATENT ASSIGNEE(S): GENENCOR INTERNATIONAL, INC., Palo Alto, CANADA, 94304
(non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007092935	A1	20070426
APPLICATION INFO.:	US 2004-549944	A1	20040428 (10)
	WO 2004-US13175		20040428
			20060821 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-467255P	20030430 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: GENENCOR INTERNATIONAL, INC., ATTENTION: LEGAL DEPARTMENT, 925 PAGE MILL ROAD, PALO ALTO, CA, 94304, US
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1781
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a novel cellulase nucleic acid sequence, designated BagCel, and the corresponding BagCel amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding BagCel, recombinant BagCel proteins and methods for producing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2007:106965 USPATFULL <<LOGINID::20070716>>
TITLE: Novel bacillus mhkcel cellulase
INVENTOR(S): Jones, Brian E., Leiden, NETHERLANDS
Grant, William D., Leicestershire, UNITED KINGDOM
Heaphy, Shaun, Leicester, UNITED KINGDOM
Grant, Susan, Leicestershire, UNITED KINGDOM
Rees, Helen, Sheffield, UNITED KINGDOM
PATENT ASSIGNEE(S): GENECOR INTERNATIONAL, INC., Palo Alto, CA, UNITED STATES, 94304 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007092934	A1	20070426
APPLICATION INFO.:	US 2004-549603	A1	20040428 (10)
	WO 2004-US13257		20040428
			20060821 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-467315P	20030430 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Victoria L Boyd, Genencor International Inc, 925 Page Mill Road, Palo Alto, CA, 94304-1013, US
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1782
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a novel cellulase nucleic acid sequence, designated mHKcel, and the corresponding mHKcel amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding mHKcel, recombinant mHKcel proteins and methods for producing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2007:94681 USPATFULL <<LOGINID::20070716>>
TITLE: Polypeptides of Alicyclobacillus sp.
INVENTOR(S): Wilting, Reinhard, Farum, DENMARK
Lassen, Soren Flensted, Farum, DENMARK
Ostergaard, Peter Rahbek, Virum, DENMARK
PATENT ASSIGNEE(S): Novozymes A/S, Bagsvaerd, DENMARK, DK-2880 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007082381	A1	20070412
APPLICATION INFO.:	US 2006-636950	A1	20061211 (11)

RELATED APPLN. INFO.: Division of Ser. No. US 2004-784592, filed on 23 Feb 2004, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2004-10	20040106
	DK 2004-165	20040204

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: NOVOZYMES NORTH AMERICA, INC., 500 FIFTH AVENUE, SUITE 1600, NEW YORK, NY, 10110, US
NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
LINE COUNT: 5227
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to Isolated mature functional polypeptide which is at least 90% identical to and exhibits the same function of a corresponding secreted polypeptide obtainable from the bacterium Alicyclobacillus sp. deposited under accession number DSM 15716 are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2005:171236 USPATFULL <<LOGINID::20070716>>
TITLE: Polypeptides of Alicyclobacillus sp.
INVENTOR(S): Wilting, Reinhard, Farum, DENMARK
Lassen, Soren Flensted, Farum, DENMARK
Ostergaard, Peter Rahbek, Virum, DENMARK
PATENT ASSIGNEE(S): Novozymes A/S, Bagsvaerd, DENMARK (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005147983	A1	20050707
APPLICATION INFO.:	US 2004-784592	A1	20040223 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2004-10	20040106
	DK 2004-165	20040204

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: NOVOZYMES NORTH AMERICA, INC., 500 FIFTH AVENUE, SUITE 1600, NEW YORK, NY, 10110, US
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1-35
LINE COUNT: 4852
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Isolated polypeptides are disclosed selected from the group consisting of: (a) polypeptides comprising an amino acid sequence which has at least 90% identity with a sequence of a mature polypeptide comprised in the group of SEQ ID NO: 26 to SEQ ID NO:50; (b) polypeptides which are encoded a nucleotide sequence which hybridize under high stringency conditions with a polynucleotide probe selected from the group consisting of (i) the complementary strand to a nucleotide sequence

selected from the group of regions of SEQ ID NO: 1 to SEQ ID NO: 25 encoding a mature polypeptide. (ii) the complementary strand to the cDNA sequence contained in a nucleotide sequences selected from the group of regions of SEQ ID NO: 1 to SEQ ID NO: 25 encoding a mature polypeptide wherein the polypeptides have a function of the corresponding mature polypeptides comprised in SEQ ID NO:26 to SEQ ID NO:50

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2005:158196 USPATFULL <<LOGINID::20070716>>
TITLE: Nucleic acid and amino acid sequences relating to streptococcus pneumoniae for diagnostics and therapeutics
INVENTOR(S): Doucette-Stamm, Lynn A., Framingham, MA, UNITED STATES
Bush, David, Somerville, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005136404	A1	20050623
APPLICATION INFO.:	US 2003-617320	A1	20030710 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 1998-107433, filed on 30 Jun 1998, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-51553P	19970702 (60)
	US 1998-85131P	19980512 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Robert L. Spadafora, Genome Therapeutics Corporation, 100 Beaver Street, Waltham, MA, 02453, US
NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
LINE COUNT: 12957
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides isolated polypeptide and nucleic acid sequences derived from Streptococcus pneumonia that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2004:57035 USPATFULL <<LOGINID::20070716>>
TITLE: Staphylococcus aureus polynucleotides and sequences
INVENTOR(S): Kunsch, Charles A., Norcross, GA, UNITED STATES
Choi, Gil H., Rockville, MD, UNITED STATES
Barash, Steven, Rockville, MD, UNITED STATES
Dillon, Patrick J., Carlsbad, CA, UNITED STATES
Fannon, Michael R., Silver Spring, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, 20850 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004043037	A1	20040304
APPLICATION INFO.:	US 2002-329624	A1	20021227 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 1997-956171, filed on 20 Oct 1997, GRANTED, Pat. No. US 6593114 Continuation-in-part of Ser. No. US 1997-781986, filed on 3 Jan 1997, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-9861P	19960105 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 10758
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides polynucleotide sequences of the genome of Staphylococcus aureus, polypeptide sequences encoded by the polynucleotide sequences, corresponding polynucleotides and polypeptides, vectors and hosts comprising the polynucleotides, and assays and other uses thereof. The present invention further provides polynucleotide and polypeptide sequence information stored on computer readable media, and computer-based systems and methods which facilitate its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2004:7460 USPATFULL <<LOGINID::20070716>>
TITLE: Method for producing recombinant proteins by gram-negative bacteria
INVENTOR(S): Miksch, Gerhard, Steinhagen, GERMANY, FEDERAL REPUBLIC OF
Flaschel, Erwin, Biefeld, GERMANY, FEDERAL REPUBLIC OF
Breves, Roland, Ratingen, GERMANY, FEDERAL REPUBLIC OF
Maurer, Karl-Heinz, Erkrath, GERMANY, FEDERAL REPUBLIC OF
Kleist, sophia, Biefeld, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004005695	A1	20040108
APPLICATION INFO.:	US 2003-258367	A1	20030319 (10)
	WO 2001-EP4227		20010412

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2000-10019881	20000420

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Connoly Bove Lodge & Hutz, 1220 Market Street, P O Box 2207, Wilmington, DE, 19899
NUMBER OF CLAIMS: 37
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 1639
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to a method for producing ***recombinant*** proteins by gram-negative bacteria. According to the inventive method, the products are released into the surrounding medium, thereby allowing for high ***expression*** and production rates. To this end, the ***gene*** of the ***recombinant*** protein to be produced is placed under the control of a promoter derived from a gram-positive organism, preferably from a promoter derived from the genus ***Bacillus*** that in nature does not control said ***gene*** , and a system becomes active that partially opens the outer membrane of the bacteria produced. The preferred bacteria are E. ***coli*** or Klebsiella, promoters that are not necessarily inducible from outside, especially constitutive promoters such as the .beta.- ***glucanase*** promoter of ***Bacillus*** amyloliquefaciens (bgl promoter) and the colicin system. The protein is thereby released into the surrounding medium from where it can be easily purified. The inventive method allows for making the fermentative production of protein more efficient. The inventive system is for example suitable for producing .alpha.-amylases or bacterial phytases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2004:250212 USPATFULL <<LOGINID::20070716>>
TITLE: Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics
INVENTOR(S): Doucette-Stamm, Lynn A., Framingham, MA, United States
Bush, David, Somerville, MA, United States
PATENT ASSIGNEE(S): Genome Therapeutics Corporation, Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6800744	B1	20041005
APPLICATION INFO.:	US 1998-107433		19980630 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-85131P	19980512 (60)
	US 1997-51553P	19970702 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
ASSISTANT EXAMINER: Zhou, Shubo "Joe "
LEGAL REPRESENTATIVE: Genome Therapeutics Corporation
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 11545
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides isolated polypeptide and nucleic acid sequences derived from Streptococcus pneumonia that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2003:78516 USPATFULL <<LOGINID::20070716>>
TITLE: STAPHYLOCOCCUS AUREUS POLYNUCLEOTIDES AND SEQUENCES
INVENTOR(S): KUNSCH, CHARLES A., GAITHERSBURG, MD, UNITED STATES
CHOI, GIL A., ROCKVILLE, MD, UNITED STATES
BARASH, STEVEN C., ROCKVILLE, MD, UNITED STATES
DILLON, PATRICK J., GAITHERSBURG, MD, UNITED STATES
FANNON, MICHAEL R., SILVER SPRING, MD, UNITED STATES
ROSEN, CRAIG A., LAYTONSVILLE, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003054436	A1	20030320
	US 6737248	B2	20040518
APPLICATION INFO.:	US 1997-781986	A1	19970103 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-9861P	19960105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 13414
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides polynucleotide sequences of the genome of Staphylococcus aureus, polypeptide sequences encoded by the polynucleotide sequences, corresponding polynucleotides and polypeptides, vectors and hosts comprising the polynucleotides, and

assays and other uses thereof. The present invention further provides polynucleotide and polypeptide sequence information stored on computer readable media, and computer-based systems and methods which facilitate its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2003:190673 USPATFULL <<LOGINID::20070716>>
TITLE: Staphylococcus aureus polynucleotides and sequences
INVENTOR(S): Kunsch, Charles A., Norcross, GA, United States
Choi, Gil H., Rockville, MD, United States
Barash, Steven, Rockville, MD, United States
Dillon, Patrick J., Carlsbad, CA, United States
Fannon, Michael R., Silver Spring, MD, United States
Rosen, Craig A., Laytonsville, MD, United States
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6593114	B1	20030715
APPLICATION INFO.:	US 1997-956171		19971020 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-781986, filed on 3 Jan 1997

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-9861P	19960105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Duffy, Patricia A.
LEGAL REPRESENTATIVE: Human Genome Sciences, Inc.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 7835
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides polynucleotide sequences of the genome of Staphylococcus aureus, polypeptide sequences encoded by the polynucleotide sequences, corresponding polynucleotides and polypeptides, vectors and hosts comprising the polynucleotides, and assays and other uses thereof. The present invention further provides polynucleotide and polypeptide sequence information stored on computer readable media, and computer-based systems and methods which facilitate its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 11 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2002:235970 USPATFULL <<LOGINID::20070716>>
TITLE: Detergents comprising cellulases
INVENTOR(S): Lenting, Hermanus Bernardus Maria, VT Pijnacker, NETHERLANDS
Van Beckhoven, Rudolf Franciscus Wilhelmus Cornelis, Ek Breda, NETHERLANDS
Maurer, Karl-Heinz, Erkrath, GERMANY, FEDERAL REPUBLIC OF
Kottwitz, Beatrix, Duesseldorf, GERMANY, FEDERAL REPUBLIC OF
Weiss, Albrecht, Langenfeld, GERMANY, FEDERAL REPUBLIC OF
Van Solingen, Pieter, VZ Naaldwijk, NETHERLANDS

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002128166	A1	20020912
	US 2004097393	A9	20040520
	US 6767879	B2	20040727
APPLICATION INFO.:	US 2001-863547	A1	20010523 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1998-945574, filed on 27 Feb 1998, GRANTED, Pat. No. US 6313081 A 371 of International Ser. No. WO 1995-EP9601755, filed on 26 Apr 1995, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1995-201115	19950428

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HENKEL CORPORATION, 2500 RENAISSANCE BLVD, STE 200, GULPH MILLS, PA, 19406
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 920
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Laundry ***detergent*** compositions containing one or more cellulases having a ratio of tensile strength loss to antipilling properties of less than 1. The cellulases may be obtained from CBS 9.93 or CBS 670.93.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 12 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2002:157103 USPATFULL <<LOGINID::20070716>>
TITLE: Novel cellulase producing actinomycetes, cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, NETHERLANDS
Van Der Kleij, Wilhelmus A.H., Naaldwijk, NETHERLANDS
Van Solingen, Piet, Naaldwijk, NETHERLANDS
Weyler, Walter, San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002081702	A1	20020627
	US 6566112	B2	20030520
APPLICATION INFO.:	US 2001-795583	A1	20010227 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1999-321981, filed on 28 May 1999, PENDING Continuation-in-part of Ser. No. US 1998-104308, filed on 24 Jun 1998, GRANTED, Pat. No. US 6187577 Continuation-in-part of Ser. No. US 1997-974042, filed on 19 Nov 1997, ABANDONED
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Genencor International, Inc., 925 Page Mill Road, Palo Alto, CA, 94304
NUMBER OF CLAIMS: 30
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Page(s)
LINE COUNT: 1947
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is predicable by an Actinomycete. The cellulase has an approximate calculated molecular weight of 36 kD and has a pH optimum at 40.degree. C. of 8 and at 60.degree. C. of 7. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 13 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2002:148649 USPATFULL <<LOGINID::20070716>>
TITLE: Novel cellulase producing actinomycetes, cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, NETHERLANDS
van der Kleij, Wilhelmus A.H., Dentlaaq, NETHERLANDS
van Solingen, Piet, Naaldwijk, NETHERLANDS
Weyler, Walter, San Francisco, CA, UNITED STATES
Goedegebuur, Frits, Vlaardingen, NETHERLANDS

NUMBER KIND DATE

PATENT INFORMATION: US 2002076792 A1 20020620
US 6562612 B2 20030513
APPLICATION INFO.: US 2000-739861 A1 20001218 (9)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-321981, filed on 28 May 1999, GRANTED, Pat. No. US 6287839
Continuation-in-part of Ser. No. US 1998-104308, filed on 24 Jun 1998, GRANTED, Pat. No. US 6187577
Continuation-in-part of Ser. No. US 1997-974042, filed on 19 Nov 1997, ABANDONED
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: VICTORIA L. BOYD, GENENCOR INTERNATIONAL, INC., 925 PAGE MILL ROAD, PALO ALTO, CA, 94304-1013
NUMBER OF CLAIMS: 39
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Page(s)
LINE COUNT: 2081
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is produced by an Actinomycete. The cellulase has an approximate calculated molecular weight of 36 kD and has a pH optimum at 40.degree. C. of 8 and at 60.degree. C. of 7. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:196979 USPATFULL <<LOGINID::20070716>>
TITLE: Detergents comprising cellulases
INVENTOR(S): Lenting, Hermanus Bernardus Maria, VT Pijnacker, Netherlands
Van Beckhoven, Rudolf Franciscus Wilhelmus Cornelis, EK Breda, Netherlands
Maurer, Karl-Heinz, Erkrath, Germany, Federal Republic of
Kottwitz, Beatrix, Duesseldorf, Germany, Federal Republic of
Weiss, Albrecht, Langenfeld, Germany, Federal Republic of
Van Solingen, Pieter, VZ Naaldwijk, Netherlands
PATENT ASSIGNEE(S): Henkel Kommanditgesellschaft auf Aktien (KGaA), Duesseldorf, Germany, Federal Republic of (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6313081 B1 20011106
WO 9634092 19961031
APPLICATION INFO.: US 1998-945574 19980227 (8)
WO 1995-EP9601755 19950426
19980227 PCT 371 date
19980227 PCT 102(e) date

NUMBER DATE

PRIORITY INFORMATION: EP 1995-201115 19950428
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Douyon, Lorna M.
LEGAL REPRESENTATIVE: Jaeschke, Wayne C., Murphy, Glenn E. J.
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 764
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A laundry ***detergent*** ***composition*** comprises a cellulase having a ratio of tensile strength loss to antipilling properties of less than 1. A method of laundering cotton-containing

fabrics with the ***composition*** is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:163036 USPATFULL <<LOGINID::20070716>>
TITLE: Compositions and methods for treating cellulose containing fabrics using truncated cellulase enzyme compositions
INVENTOR(S): Farrington, Graham K., Acton, MA, United States
Anderson, Paige, Medford, MA, United States
Bergquist, Peter, Chatswood, Australia
Daniels, Roy, Hamilton, New Zealand
Gibbs, Moreland David, Lane Cove, Australia
Morgan, Hugh, Hamilton, New Zealand
Williams, Diane P., Hopkinton, MA, United States
PATENT ASSIGNEE(S): Clariant Finance (BVI) Limited, Tortola, Virgin Islands (British) (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6294366	B1	20010925
APPLICATION INFO.:	US 1998-136574		19980819 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-932571, filed on 19 Sep 1997, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Weber, Jon P.
LEGAL REPRESENTATIVE: Pfeiffer, Hesna J., Hanf, Scott E
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 27 Drawing Figure(s); 20 Drawing Page(s)
LINE COUNT: 1582
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Alkalophilic and thermophilic cellulases having high stability to elevated temperatures and pH have been isolated from an organism of unknown species, which most closely resembles those in the Caldicellulosiruptor genus and which has been called by us, Tok7B.1, These cellulases have been cloned and expressed in a recombinant system, so that they can be produced in quantity. These are particularly useful in treating cellulosic materials including cotton-containing fabrics, as ***detergent*** additives, and in aqueous compositions. We also provide genomic DNA which can be used in recombinant expression vectors and expression systems to produce enhanced alkali and/or temperature stability properties in cellulases other than those specifically described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:152747 USPATFULL <<LOGINID::20070716>>
TITLE: Cellulase producing actinomycetes, cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, Netherlands
Van Der Kleij, Wilhelmus A. H., Naaldwijk, Netherlands
Van Solingen, Piet, Naaldwijk, Netherlands
Weyler, Walter, San Francisco, CA, United States
PATENT ASSIGNEE(S): Genencor International, Inc., Palo Alto, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6287839	B1	20010911
APPLICATION INFO.:	US 1999-321981		19990528 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-104308, filed on 24 Jun 1998, now patented, Pat. No. US 6187577
Continuation-in-part of Ser. No. US 1997-974042, filed on 19 Nov 1997, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Patterson, Jr., Charles L.
LEGAL REPRESENTATIVE: Genencor International
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Figure(s); 18 Drawing Page(s)
LINE COUNT: 1733
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is predicable by an Actinomycete. The cellulase has an approximate calculated molecular weight of 36 kD and has a pH optimum at 40.degree. C. of 8 and at 60.degree. C. of 7. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 17 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:25664 USPATFULL <<LOGINID::20070716>>
TITLE: Cellulase producing actinomycetes, cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, Netherlands
Van Der Kleij, Wilhelmus A. H., Naaldwijk, Netherlands
Van Solingen, Piet, Naaldwijk, Netherlands
Weyler, Walter, San Francisco, CA, United States
PATENT ASSIGNEE(S): Genencor International, Inc., Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6190899	B1	20010220
APPLICATION INFO.:	US 1998-102204		19980622 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-974041, filed on 19 Nov 1997, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Patterson, Jr., Charles L.
LEGAL REPRESENTATIVE: Faris, Susan K., Marcus-Wyner, Lynn
NUMBER OF CLAIMS: 16
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1083
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is producible by an Actinomycete. The cellulase has an approximate calculated molecular weight of 35 kD and has a pH optimum at 40.degree. C. of 6 and at 60.degree. C. of 6 or less. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 18 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:22023 USPATFULL <<LOGINID::20070716>>
TITLE: Cellulase producing Actinomycetes cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, Netherlands
Van Der Kleij, Wilhelmus A. H., Naaldwijk, Netherlands
Van Solingen, Piet, Naaldwijk, Netherlands
Weyler, Walter, San Francisco, CA, United States
PATENT ASSIGNEE(S): Genecor International, Inc., Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6187577	B1	20010213
APPLICATION INFO.:	US 1998-104308		19980624 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-974042, filed on 19 Nov 1997, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Patterson, Jr., Charles L.

LEGAL REPRESENTATIVE: Faris, Susan K., Marcus-Wyner, LynnGenecor International, Incorporated
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1059
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is producible by an Actinomycete. The cellulase has an approximate calculated molecular weight of 36 kD and has a pH optimum at 40.degree. C. of 8 and at 60.degree. C. of 7. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 19 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2000:61427 USPATFULL <<LOGINID::20070716>>
TITLE: Alkaline cellulase and method of producing same
INVENTOR(S): Van Solingen, Pieter, Naaldwijk, Netherlands
PATENT ASSIGNEE(S): Genencor International, Inc., Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6063611		20000516
	WO 9734005		19970918
APPLICATION INFO.:	US 1997-732433		19970318 (8)
	WO 1996-US5651		19960426
			19970418 PCT 371 date
			19970418 PCT 102(e) date

RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-614115, filed on 12 Mar 1996, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Sisson, Bradley L.
ASSISTANT EXAMINER: Stole, Einar
LEGAL REPRESENTATIVE: Stone, Christopher L., Faris, Susan
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 638
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a novel cellulase ***composition*** obtainable from Bacillus sp. CBS 669.93. A preferred cellulase has a calculated molecular weight of approximately 63 kD, a calculated isoelectric point of about 5 and a pH optimum on CMC of about 6 at 40.degree. C. and 60.degree. C.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 20 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2000:37632 USPATFULL <<LOGINID::20070716>>
TITLE: Endoglucanase
INVENTOR(S): Bjornvad, Mads Eskelund, Frederiksberg, Denmark
Schulein, Martin, Copenhagen, Denmark
Norrevang, Iben Angelica, Hillerod, Denmark
PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6043075		20000328
APPLICATION INFO.:	US 1997-995280		19971219 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1996-1483	19961220

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Prouty, Rebecca E.

ASSISTANT EXAMINER: Slobodyansky, Elizabeth
LEGAL REPRESENTATIVE: Zelson, Steve T., Gregg, Valeta
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
LINE COUNT: 1448
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB An endoglucanase obtainable from Dictyoglomus exhibiting optimum activity at a temperature above 85.degree. C. is disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 21 OF 24 USPATFULL on STN
ACCESSION NUMBER: 1999:21543 USPATFULL <<LOGINID::20070716>>
TITLE: Mutant Thermonospora spp. cellulase
INVENTOR(S): Goedegebuur, Frits, Vloordingen, Netherlands
Power, Scott D., San Bruno, CA, United States
Winetzky, Deborah, Foster City, CA, United States
Van Kimmenade, Anita, San Bruno, CA, United States
Yoon, Mee-Young, Palo Alto, CA, United States
PATENT ASSIGNEE(S): Genencor International, Inc., Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5871550		19990216
APPLICATION INFO.:	US 1997-924440		19970826 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Fries, Kery
LEGAL REPRESENTATIVE: Stone, Christopher L.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1297
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A mutant cellulase obtainable from Thermomonospora spp is provided which differs from a precursor cellulase in that it has been genetically engineered to introduce a substitution, deletion or addition of an amino acid residue to said precursor cellulase which provided improved activity in a ***detergent*** . Preferably, the substitution is at a residue corresponding to T140 in Thermomonospora fusca.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 22 OF 24 USPATFULL on STN
ACCESSION NUMBER: 1999:1503 USPATFULL <<LOGINID::20070716>>
TITLE: Alkaline cellulase and method of producing same
INVENTOR(S): Van Solingen, Pieter, Naaldwijk, Netherlands
PATENT ASSIGNEE(S): Genencor International, Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5856165		19990105
	WO 9634108		19961031
APPLICATION INFO.:	US 1997-727548		19970604 (8)
	WO 1996-US5652		19960426
			19970604 PCT 371 date
			19970604 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1995-201115	19950428

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Longton, Enrique D.
LEGAL REPRESENTATIVE: Stone, Christopher L.
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 558
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a novel cellulase ***composition*** obtainable from Bacillus sp. CBS 670.93. A preferred cellulase has a calculated molecular weight of approximately 50 kD, a calculated isoelectric point of about 4 and a pH optimum on CMC of about 6-10 at 40.degree. C. and about 7 at 60.degree. C.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 23 OF 24 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN
ACCESSION NUMBER: 1999-347482 [29] WPIDS
CROSS REFERENCE: 1999-347481; 2000-224344; 2002-499737
DOC. NO. CPI: C1999-102268 [29]
TITLE: Cellulase from Actinomycetes
DERWENT CLASS: D11; D13; D16; D17; D25; F06; F09
INVENTOR: JONES B; JONES B E; VAN DER KLEIJ W; VAN DER KLEIJ W A H; VAN SOLINGEN P; WEYLER W; JONES E; VAN DER KLEIJ A
PATENT ASSIGNEE: (GEMV-C) GENENCOR INT INC
COUNTRY COUNT: 81

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 9925847	A2	19990527	(199929)*	EN	36[6]	
AU 9915908	A	19990607	(199943)	EN		
EP 1034280	A2	20000913	(200046)	EN		
US 6190899	B1	20010220	(200112)	EN		
KR 2001032218	A	20010416	(200163)	KO		
JP 2001523464	W	20011127	(200204)	JA	45	
EP 1034280	B1	20060531	(200637)	EN		
DE 69834741	E	20060706	(200648)	DE		
ES 2267200	T3	20070301	(200719)	ES		
DE 69834741	T2	20070503	(200731)	DE		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION DATE
WO 9925847	A2	WO 1998-US24650 19981118
US 6190899	B1 CIP of	US 1997-974041 19971119
US 6190899	B1	US 1998-102204 19980622
DE 69834741	E	DE 1998-634741 19981118
EP 1034280	A2	EP 1998-960266 19981118
EP 1034280	B1	EP 1998-960266 19981118
DE 69834741	E	EP 1998-960266 19981118
ES 2267200	T3	EP 1998-960266 19981118
EP 1034280	A2	WO 1998-US24650 19981118
JP 2001523464	W	WO 1998-US24650 19981118
EP 1034280	B1	WO 1998-US24650 19981118
DE 69834741	E	WO 1998-US24650 19981118
AU 9915908	A	AU 1999-15908 19981118
JP 2001523464	W	JP 2000-521212 19981118
KR 2001032218	A	KR 2000-705414 20000518
DE 69834741	T2	DE 1998-634741 19981118
DE 69834741	T2	EP 1998-960266 19981118
DE 69834741	T2	WO 1998-US24650 19981118

FILING DETAILS:

PATENT NO	KIND		PATENT NO	
DE 69834741	E	Based on	EP 1034280	A
ES 2267200	T3	Based on	EP 1034280	A
AU 9915908	A	Based on	WO 9925847	A
EP 1034280	A2	Based on	WO 9925847	A
JP 2001523464	W	Based on	WO 9925847	A
EP 1034280	B1	Based on	WO 9925847	A

DE 69834741 E Based on WO 9925847 A
DE 69834741 T2 Based on EP 1034280 A
DE 69834741 T2 Based on WO 9925847 A

PRIORITY APPLN. INFO: US 1998-102204 19980622
US 1997-974041 19971119
US 1997-974042 19971119
AN 1999-347482 [29] WPIDS
CR 1999-347481; 2000-224344; 2002-499737
AB WO 1999025847 A2 UPAB: 20050521
NOVELTY - Cellulase (I) having a 352 amino acid (aa) sequence (1), reproduced, and its active derivatives.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(a) DNA (II) encoding (I);
(b) recombinant production of (I);
(c) identifying DNA encoding a microbial cellulase using (II), or part of it, as hybridization probe; and
(d) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stone washing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper. They may also be used (not claimed) as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60degreesC than at 40 degreesC.

Member(0003)
ABEQ EP 1034280 A2 UPAB 20050521
NOVELTY - Cellulase (I) having a 352 amino acid (aa) sequence (1), reproduced, and its active derivatives.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(a) DNA (II) encoding (I);
(b) recombinant production of (I);
(c) identifying DNA encoding a microbial cellulase using (II), or part of it, as hybridization probe; and
(d) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stone washing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper. They may also be used (not claimed) as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60degreesC than at 40 degreesC.

Member(0004)
ABEQ US 6190899 B1 UPAB 20050521
NOVELTY - Cellulase (I) having a 352 amino acid (aa) sequence (1), reproduced, and its active derivatives.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(a) DNA (II) encoding (I);
(b) recombinant production of (I);
(c) identifying DNA encoding a microbial cellulase using (II), or part of it, as hybridization probe; and
(d) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stone washing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper. They may also be used (not claimed) as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60degreesC than at 40 degreesC.

L10 ANSWER 24 OF 24 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN
ACCESSION NUMBER: 1999-347481 [29] WPIDS
CROSS REFERENCE: 1999-347482; 2000-224344; 2002-499737
DOC. NO. CPI: C1999-102267 [29]
TITLE: New Actinomycete cellulase useful in ***detergent*** compositions, in animal feeds and in treatment of textiles
DERWENT CLASS: D13; D16; D17; D25; F06; F09
INVENTOR: JONES B E; VAN DER KLEIJ W A H; VAN SOLINGEN P; VAN SOLLINGEN P; WEYLER W; JONES E; VAN DER KLEIJ A
PATENT ASSIGNEE: (GEMV-C) GENENCOR INT INC
COUNTRY COUNT: 81

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 9925846	A2	19990527	(199929)*	EN	35	[6]
AU 9914190	A	19990607	(199943)	EN		
EP 1032686	A2	20000906	(200044)	EN		
US 6187577	B1	20010213	(200111)	EN		
KR 2001032219	A	20010416	(200163)	KO		
JP 2001523463	W	20011127	(200204)	JA	46	
NZ 504197	A	20020301	(200224)	EN		
AU 749780	B	20020704	(200255)	EN		
EP 1032686	B1	20050309	(200519)	EN		
DE 69829308	E	20050414	(200525)	DE		
JP 3661995	B2	20050622	(200541)	JA	23	
DE 69829308	T2	20060511	(200635)	DE		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9925846	A2	WO 1998-US24649	19981118
US 6187577	B1 CIP of	US 1997-974042	19971119
US 6187577	B1	US 1998-104308	19980624
DE 69829308	E	DE 1998-629308	19981118
EP 1032686	A2	EP 1998-958079	19981118
EP 1032686	B1	EP 1998-958079	19981118
DE 69829308	E	EP 1998-958079	19981118
NZ 504197	A	NZ 1998-504197	19981118
EP 1032686	A2	WO 1998-US24649	19981118
JP 2001523463	W	WO 1998-US24649	19981118
NZ 504197	A	WO 1998-US24649	19981118
EP 1032686	B1	WO 1998-US24649	19981118
DE 69829308	E	WO 1998-US24649	19981118
JP 3661995	B2	WO 1998-US24649	19981118
AU 9914190	A	AU 1999-14190	19981118
AU 749780	B	AU 1999-14190	19981118
JP 2001523463	W	JP 2000-521211	19981118
JP 3661995	B2	JP 2000-521211	19981118
KR 2001032219	A	KR 2000-705415	20000518
DE 69829308	T2	DE 1998-629308	19981118
DE 69829308	T2	EP 1998-958079	19981118
DE 69829308	T2	WO 1998-US24649	19981118

FILING DETAILS:

PATENT NO	KIND		PATENT NO	
AU 749780	B	Previous Publ	AU 9914190	A
DE 69829308	E	Based on	EP 1032686	A
JP 3661995	B2	Previous Publ	JP 2001523463	W
AU 9914190	A	Based on	WO 9925846	A
EP 1032686	A2	Based on	WO 9925846	A
JP 2001523463	W	Based on	WO 9925846	A
NZ 504197	A	Based on	WO 9925846	A
AU 749780	B	Based on	WO 9925846	A

EP 1032686	B1	Based on	WO 9925846	A
DE 69829308	E	Based on	WO 9925846	A
JP 3661995	B2	Based on	WO 9925846	A
DE 69829308	T2	Based on	EP 1032686	A
DE 69829308	T2	Based on	WO 9925846	A

PRIORITY APPLN. INFO: US 1998-104308 19980624
US 1997-974041 19971119
US 1997-974042 19971119
AN 1999-347481 [29] WPIDS
CR 1999-347482; 2000-224344; 2002-499737
AB WO 1999025846 A2 UPAB: 20060115
NOVELTY - Cellulase (I) having a 371 amino acid (aa) sequence (S1), given in the specification and its active derivatives, is new.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) DNA (S2) encoding (I);
(2) recombinant production of (I);
(3) identifying DNA encoding a microbial cellulase using (S2), or part of it, as hybridization probe; and
(4) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stonewashing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper (claimed). They may also be used as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60 degrees Centigrade than at 40 degrees Centigrade.

Member(0003)
ABEQ EP 1032686 A2 UPAB 20060115
NOVELTY - Cellulase (I) having a 371 amino acid (aa) sequence (S1), given in the specification and its active derivatives, is new.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) DNA (S2) encoding (I);
(2) recombinant production of (I);
(3) identifying DNA encoding a microbial cellulase using (S2), or part of it, as hybridization probe; and
(4) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stonewashing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper (claimed). They may also be used as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60 degrees Centigrade than at 40 degrees Centigrade.

Member(0004)
ABEQ US 6187577 B1 UPAB 20060115
NOVELTY - Cellulase (I) having a 371 amino acid (aa) sequence (S1), given in the specification and its active derivatives, is new.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) DNA (S2) encoding (I);
(2) recombinant production of (I);
(3) identifying DNA encoding a microbial cellulase using (S2), or part of it, as hybridization probe; and
(4) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stonewashing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper (claimed). They may also be used as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).

ADVANTAGE - (I) is active at pH 5-10 and is more active at 60 degrees Centigrade than at 40 degrees Centigrade.

=> d his

L1 QUE (CELLULASE OR ENDOGLUCANASE OR GLUCANASE)

FILE 'CAPLUS, BIOSIS, SCISEARCH, USPATFULL, CABA, LIFESCI, AGRICOLA, MEDLINE, EMBASE, WPIDS' ENTERED AT 17:15:46 ON 16 JUL 2007

L2 93672 S L1
L3 14539 S (GENE OR SEQUENCE OR POLYNUCLEOTIDE OR CLONE OR RECOMBINANT)
L4 1677 S BACILLUS (S) L3
L5 773 S EXPRESS? (S) L4
L6 341 S COLI (S) L5
L7 7 S COMPOSITION (S) L6
L8 69 S COMPOSITION AND L6
L9 24 S (DETERGENT OR (FEED (W) ADDITIVE)) AND L8
L10 24 DUP REM L9 (0 DUPLICATES REMOVED)

=> log y

=> index bioscience medicine

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 17:14:26 ON 16 JUL 2007

70 FILES IN THE FILE LIST IN STNINDEX

=> S (cellulase or endoglucanase or glucanase)
1 FILE ADISNEWS
5082 FILE AGRICOLA
190 FILE ANABSTR
191 FILE ANTE
48 FILE AQUALINE
421 FILE AQUASCI
3898 FILE BIOENG
14470 FILE BIOSIS
7910 FILE BIOTECHABS
7910 FILE BIOTECHDS
3876 FILE BIOTECHNO
8646 FILE CABA
25567 FILE CAPLUS
2373 FILE CEABA-VTB
110 FILE CIN
312 FILE CONFSCI
206 FILE CROPB
420 FILE CROPU
98 FILE DDFB
61 FILE DDFU
11858 FILE DGENE
707 FILE DISSABS
98 FILE DRUGB
223 FILE DRUGMONOG2
86 FILE DRUGU
36 FILE EMBAL
4884 FILE EMBASE
4039 FILE ESBIOBASE
76 FILE FOREGE
998 FILE FROSTI
3249 FILE FSTA
7060 FILE GENBANK
24 FILE HEALSAFE
2024 FILE IFIPAT
86 FILE IMSPRODUCT
14 FILE KOSMET
5435 FILE LIFESCI
42 FILES SEARCHED...
5004 FILE MEDLINE
353 FILE NTIS
139 FILE OCEAN
7394 FILE PASCAL
90 FILE PCTGEN
31 FILE PHIN
346 FILE PROMT
16 FILE RDISCLOSURE
10643 FILE SCISEARCH
1 FILE SYNTHLINE
3033 FILE TOXCENTER
9284 FILE USPATFULL
1492 FILE USPAT2
11 FILE VETB
409 FILE VETU
75 FILE WATER
4657 FILE WPIDS
25 FILE WPIFV
4657 FILE WPINDEX

17 FILE IPA
32 FILE NAPRALERT
151 FILE NLDB

59 FILES HAVE ONE OR MORE ANSWERS, 70 FILES SEARCHED IN STNINDEX

L1 QUE (CELLULASE OR ENDOGLUCANASE OR GLUCANASE)

=> d rank

F1	25567	CAPLUS
F2	14470	BIOSIS
F3	11858	DGENE
F4	10643	SCISEARCH
F5	9284	USPATFULL
F6	8646	CABA
F7	7910	BIOTECHABS
F8	7910	BIOTECHDS
F9	7394	PASCAL
F10	7060	GENBANK
F11	5435	LIFESCI
F12	5082	AGRICOLA
F13	5004	MEDLINE
F14	4884	EMBASE
F15	4657	WPIDS
F16	4657	WPINDEX
F17	4039	ESBIOBASE
F18	3898	BIOENG
F19	3876	BIOTECHNO
F20	3249	FSTA
F21	3033	TOXCENTER
F22	2373	CEABA-VTB
F23	2024	IFIPAT
F24	1492	USPAT2
F25	998	FROSTI
F26	707	DISSABS
F27	421	AQUASCI
F28	420	CROPU
F29	409	VETU
F30	353	NTIS
F31	346	PROMT
F32	312	CONFSCI
F33	223	DRUGMONOG2
F34	206	CROPB
F35	191	ANTE
F36	190	ANABSTR
F37	151	NLDB
F38	139	OCEAN
F39	110	CIN
F40	98	DDFB
F41	98	DRUGB
F42	90	PCTGEN
F43	86	DRUGU
F44	86	IMSPRODUCT
F45	76	FOREGE
F46	75	WATER
F47	61	DDFU
F48	48	AQUALINE
F49	36	EMBAL
F50	32	NAPRALERT
F51	31	PHIN
F52	25	WPIFV
F53	24	HEALSAFE
F54	17	IPA
F55	16	RDISCLOSURE
F56	14	KOSMET
F57	11	VETB
F58	1	ADISNEWS
F59	1	SYNTHLINE

=> file f1-f2, f4-f7, f11-f15

FILE 'CAPLUS' ENTERED AT 17:15:46 ON 16 JUL 2007
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FILE 'BIOTECHABS' ACCESS NOT AUTHORIZED

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FILE 'MEDLINE' ENTERED AT 17:15:46 ON 16 JUL 2007

FILE 'EMBASE' ENTERED AT 17:15:46 ON 16 JUL 2007
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FILE 'WPIDS' ENTERED AT 17:15:46 ON 16 JUL 2007
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=> S L1
L2 93672 L1

=> S (gene or sequence or polynucleotide or clone or recombinant) (s) L2
L3 14539 (GENE OR SEQUENCE OR POLYNUCLEOTIDE OR CLONE OR RECOMBINANT) (S) L2

=> S Bacillus (s) L3
L4 1677 BACILLUS (S) L3

=> S express? (s) L4
L5 773 EXPRESS? (S) L4

=> S coli (s) L5
L6 341 COLI (S) L5

=> S composition (s) L6
L7 7 COMPOSITION (S) L6

=> S composition and L6
L8 69 COMPOSITION AND L6

=> s (detergent or (feed (w) additive)) and L8
L9 24 (DETERGENT OR (FEED (W) ADDITIVE)) AND L8

=> dup rem l9
PROCESSING COMPLETED FOR L9
L10 24 DUP REM L9 (0 DUPLICATES REMOVED)

=> D ibib abs L10 1-24

L10 ANSWER 1 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2007:106966 USPATFULL <<LOGINID::20070716>>
TITLE: Novel bacillus bagcel cellulase
INVENTOR(S): Jones, Brian E., Leiden, NETHERLANDS
Grant, William D., Leicestershire, UNITED KINGDOM

Heaphy, Shaun, Leicester, UNITED KINGDOM
Grant, Susan, Leicestershire, UNITED KINGDOM
PATENT ASSIGNEE(S): GENENCOR INTERNATIONAL, INC., Palo Alto, CANADA, 94304 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007092935	A1	20070426
APPLICATION INFO.:	US 2004-549944	A1	20040428 (10)
	WO 2004-US13175		20040428
			20060821 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-467255P	20030430 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: GENENCOR INTERNATIONAL, INC., ATTENTION: LEGAL DEPARTMENT, 925 PAGE MILL ROAD, PALO ALTO, CA, 94304, US
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 4 Drawing Page(s)
LINE COUNT: 1781
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a novel cellulase nucleic acid sequence, designated BagCel, and the corresponding BagCel amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding BagCel, recombinant BagCel proteins and methods for producing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 2 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2007:106965 USPATFULL <<LOGINID::20070716>>
TITLE: Novel bacillus mhkcel cellulase
INVENTOR(S): Jones, Brian E., Leiden, NETHERLANDS
Grant, William D., Leicestershire, UNITED KINGDOM
Heaphy, Shaun, Leicester, UNITED KINGDOM
Grant, Susan, Leicestershire, UNITED KINGDOM
Rees, Helen, Sheffield, UNITED KINGDOM
PATENT ASSIGNEE(S): GENECOR INTERNATIONAL, INC., Palo Alto, CA, UNITED STATES, 94304 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007092934	A1	20070426
APPLICATION INFO.:	US 2004-549603	A1	20040428 (10)
	WO 2004-US13257		20040428
			20060821 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2003-467315P	20030430 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Victoria L Boyd, Genencor International Inc, 925 Page Mill Road, Palo Alto, CA, 94304-1013, US
NUMBER OF CLAIMS: 34
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Page(s)
LINE COUNT: 1782
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a novel cellulase nucleic acid sequence, designated mHKcel, and the corresponding mHKcel amino acid sequence. The invention also provides expression vectors and host cells comprising a nucleic acid sequence encoding mHKcel, recombinant mHKcel proteins and methods for producing the same.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 3 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2007:94681 USPATFULL <<LOGINID::20070716>>
TITLE: Polypeptides of Alicyclobacillus sp.
INVENTOR(S): Wilting, Reinhard, Farum, DENMARK
Lassen, Soren Flensted, Farum, DENMARK
Ostergaard, Peter Rahbek, Virum, DENMARK
PATENT ASSIGNEE(S): Novozymes A/S, Bagsvaerd, DENMARK, DK-2880 (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2007082381	A1	20070412
APPLICATION INFO.:	US 2006-636950	A1	20061211 (11)

RELATED APPLN. INFO.: Division of Ser. No. US 2004-784592, filed on 23 Feb 2004, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2004-10	20040106
	DK 2004-165	20040204

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: NOVOZYMES NORTH AMERICA, INC., 500 FIFTH AVENUE, SUITE 1600, NEW YORK, NY, 10110, US
NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
LINE COUNT: 5227
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention relates to Isolated mature functional polypeptide which is at least 90% identical to and exhibits the same function of a corresponding secreted polypeptide obtainable from the bacterium Alicyclobacillus sp. deposited under accession number DSM 15716 are disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 4 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2005:171236 USPATFULL <<LOGINID::20070716>>
TITLE: Polypeptides of Alicyclobacillus sp.
INVENTOR(S): Wilting, Reinhard, Farum, DENMARK
Lassen, Soren Flensted, Farum, DENMARK
Ostergaard, Peter Rahbek, Virum, DENMARK
PATENT ASSIGNEE(S): Novozymes A/S, Bagsvaerd, DENMARK (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005147983	A1	20050707
APPLICATION INFO.:	US 2004-784592	A1	20040223 (10)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 2004-10	20040106
	DK 2004-165	20040204

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: NOVOZYMES NORTH AMERICA, INC., 500 FIFTH AVENUE, SUITE 1600, NEW YORK, NY, 10110, US
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1-35
LINE COUNT: 4852
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Isolated polypeptides are disclosed selected from the group consisting of: (a) polypeptides comprising an amino acid sequence which has at least 90% identity with a sequence of a mature polypeptide comprised in the group of SEQ ID NO: 26 to SEQ ID NO:50; (b) polypeptides which are encoded a nucleotide sequence which hybridize under high stringency conditions with a polynucleotide probe selected from the group consisting of (i) the complementary strand to a nucleotide sequence

selected from the group of regions of SEQ ID NO: 1 to SEQ ID NO: 25 encoding a mature polypeptide. (ii) the complementary strand to the cDNA sequence contained in a nucleotide sequences selected from the group of regions of SEQ ID NO: 1 to SEQ ID NO: 25 encoding a mature polypeptide wherein the polypeptides have a function of the corresponding mature polypeptides comprised in SEQ ID NO:26 to SEQ ID NO:50

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 5 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2005:158196 USPATFULL <<LOGINID::20070716>>
TITLE: Nucleic acid and amino acid sequences relating to streptococcus pneumoniae for diagnostics and therapeutics
INVENTOR(S): Doucette-Stamm, Lynn A., Framingham, MA, UNITED STATES
Bush, David, Somerville, MA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2005136404	A1	20050623
APPLICATION INFO.:	US 2003-617320	A1	20030710 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 1998-107433, filed on 30 Jun 1998, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 1997-51553P	19970702 (60)
	US 1998-85131P	19980512 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Robert L. Spadafora, Genome Therapeutics Corporation, 100 Beaver Street, Waltham, MA, 02453, US
NUMBER OF CLAIMS: 28
EXEMPLARY CLAIM: 1
LINE COUNT: 12957
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides isolated polypeptide and nucleic acid sequences derived from Streptococcus pneumonia that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 6 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2004:57035 USPATFULL <<LOGINID::20070716>>
TITLE: Staphylococcus aureus polynucleotides and sequences
INVENTOR(S): Kunsch, Charles A., Norcross, GA, UNITED STATES
Choi, Gil H., Rockville, MD, UNITED STATES
Barash, Steven, Rockville, MD, UNITED STATES
Dillon, Patrick J., Carlsbad, CA, UNITED STATES
Fannon, Michael R., Silver Spring, MD, UNITED STATES
Rosen, Craig A., Laytonsville, MD, UNITED STATES
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, 20850 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004043037	A1	20040304
APPLICATION INFO.:	US 2002-329624	A1	20021227 (10)

RELATED APPLN. INFO.: Division of Ser. No. US 1997-956171, filed on 20 Oct 1997, GRANTED, Pat. No. US 6593114 Continuation-in-part of Ser. No. US 1997-781986, filed on 3 Jan 1997, PENDING

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-9861P	19960105 (60)

DOCUMENT TYPE: Utility

FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 10
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 10758
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides polynucleotide sequences of the genome of Staphylococcus aureus, polypeptide sequences encoded by the polynucleotide sequences, corresponding polynucleotides and polypeptides, vectors and hosts comprising the polynucleotides, and assays and other uses thereof. The present invention further provides polynucleotide and polypeptide sequence information stored on computer readable media, and computer-based systems and methods which facilitate its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 7 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2004:7460 USPATFULL <<LOGINID::20070716>>
TITLE: Method for producing recombinant proteins by gram-negative bacteria
INVENTOR(S): Miksch, Gerhard, Steinhagen, GERMANY, FEDERAL REPUBLIC OF
Flaschel, Erwin, Biefeld, GERMANY, FEDERAL REPUBLIC OF
Breves, Roland, Ratingen, GERMANY, FEDERAL REPUBLIC OF
Maurer, Karl-Heinz, Erkrath, GERMANY, FEDERAL REPUBLIC OF
Kleist, sophia, Biefeld, GERMANY, FEDERAL REPUBLIC OF

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2004005695	A1	20040108
APPLICATION INFO.:	US 2003-258367	A1	20030319 (10)
	WO 2001-EP4227		20010412

	NUMBER	DATE
PRIORITY INFORMATION:	DE 2000-10019881	20000420

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Connoly Bove Lodge & Hutz, 1220 Market Street, P O Box 2207, Wilmington, DE, 19899
NUMBER OF CLAIMS: 37
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 9 Drawing Page(s)
LINE COUNT: 1639
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention relates to a method for producing ***recombinant*** proteins by gram-negative bacteria. According to the inventive method, the products are released into the surrounding medium, thereby allowing for high ***expression*** and production rates. To this end, the ***gene*** of the ***recombinant*** protein to be produced is placed under the control of a promoter derived from a gram-positive organism, preferably from a promoter derived from the genus ***Bacillus*** that in nature does not control said ***gene*** , and a system becomes active that partially opens the outer membrane of the bacteria produced. The preferred bacteria are E. ***coli*** or Klebsiella, promoters that are not necessarily inducible from outside, especially constitutive promoters such as the .beta.- ***glucanase*** promoter of ***Bacillus*** amyloliquefaciens (bgl promoter) and the colicin system. The protein is thereby released into the surrounding medium from where it can be easily purified. The inventive method allows for making the fermentative production of protein more efficient. The inventive system is for example suitable for producing .alpha.-amylases or bacterial phytases.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 8 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2004:250212 USPATFULL <<LOGINID::20070716>>
TITLE: Nucleic acid and amino acid sequences relating to Streptococcus pneumoniae for diagnostics and therapeutics
INVENTOR(S): Doucette-Stamm, Lynn A., Framingham, MA, United States
Bush, David, Somerville, MA, United States
PATENT ASSIGNEE(S): Genome Therapeutics Corporation, Waltham, MA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6800744	B1	20041005
APPLICATION INFO.:	US 1998-107433		19980630 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1998-85131P	19980512 (60)
	US 1997-51553P	19970702 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Brusca, John S.
ASSISTANT EXAMINER: Zhou, Shubo "Joe "
LEGAL REPRESENTATIVE: Genome Therapeutics Corporation
NUMBER OF CLAIMS: 14
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 0 Drawing Figure(s); 0 Drawing Page(s)
LINE COUNT: 11545
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The invention provides isolated polypeptide and nucleic acid sequences derived from Streptococcus pneumonia that are useful in diagnosis and therapy of pathological conditions; antibodies against the polypeptides; and methods for the production of the polypeptides. The invention also provides methods for the detection, prevention and treatment of pathological conditions resulting from bacterial infection.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 9 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2003:78516 USPATFULL <<LOGINID::20070716>>
TITLE: STAPHYLOCOCCUS AUREUS POLYNUCLEOTIDES AND SEQUENCES
INVENTOR(S): KUNSCH, CHARLES A., GAITHERSBURG, MD, UNITED STATES
CHOI, GIL A., ROCKVILLE, MD, UNITED STATES
BARASH, STEVEN C., ROCKVILLE, MD, UNITED STATES
DILLON, PATRICK J., GAITHERSBURG, MD, UNITED STATES
FANNON, MICHAEL R., SILVER SPRING, MD, UNITED STATES
ROSEN, CRAIG A., LAYTONSVILLE, MD, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003054436	A1	20030320
	US 6737248	B2	20040518
APPLICATION INFO.:	US 1997-781986	A1	19970103 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-9861P	19960105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HUMAN GENOME SCIENCES INC, 9410 KEY WEST AVENUE, ROCKVILLE, MD, 20850
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Page(s)
LINE COUNT: 13414
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides polynucleotide sequences of the genome of Staphylococcus aureus, polypeptide sequences encoded by the polynucleotide sequences, corresponding polynucleotides and polypeptides, vectors and hosts comprising the polynucleotides, and

assays and other uses thereof. The present invention further provides polynucleotide and polypeptide sequence information stored on computer readable media, and computer-based systems and methods which facilitate its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 10 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2003:190673 USPATFULL <<LOGINID::20070716>>
TITLE: Staphylococcus aureus polynucleotides and sequences
INVENTOR(S): Kunsch, Charles A., Norcross, GA, United States
Choi, Gil H., Rockville, MD, United States
Barash, Steven, Rockville, MD, United States
Dillon, Patrick J., Carlsbad, CA, United States
Fannon, Michael R., Silver Spring, MD, United States
Rosen, Craig A., Laytonsville, MD, United States
PATENT ASSIGNEE(S): Human Genome Sciences, Inc., Rockville, MD, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6593114	B1	20030715
APPLICATION INFO.:	US 1997-956171		19971020 (8)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-781986, filed on 3 Jan 1997

	NUMBER	DATE
PRIORITY INFORMATION:	US 1996-9861P	19960105 (60)

DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Duffy, Patricia A.
LEGAL REPRESENTATIVE: Human Genome Sciences, Inc.
NUMBER OF CLAIMS: 15
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 7835
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides polynucleotide sequences of the genome of Staphylococcus aureus, polypeptide sequences encoded by the polynucleotide sequences, corresponding polynucleotides and polypeptides, vectors and hosts comprising the polynucleotides, and assays and other uses thereof. The present invention further provides polynucleotide and polypeptide sequence information stored on computer readable media, and computer-based systems and methods which facilitate its use.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 11 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2002:235970 USPATFULL <<LOGINID::20070716>>
TITLE: Detergents comprising cellulases
INVENTOR(S): Lenting, Hermanus Bernardus Maria, VT Pijnacker, NETHERLANDS
Van Beckhoven, Rudolf Franciscus Wilhelmus Cornelis, Ek Breda, NETHERLANDS
Maurer, Karl-Heinz, Erkrath, GERMANY, FEDERAL REPUBLIC OF
Kottwitz, Beatrix, Duesseldorf, GERMANY, FEDERAL REPUBLIC OF
Weiss, Albrecht, Langenfeld, GERMANY, FEDERAL REPUBLIC OF
Van Solingen, Pieter, VZ Naaldwijk, NETHERLANDS

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002128166	A1	20020912
	US 2004097393	A9	20040520
	US 6767879	B2	20040727
APPLICATION INFO.:	US 2001-863547	A1	20010523 (9)

RELATED APPLN. INFO.: Continuation of Ser. No. US 1998-945574, filed on 27 Feb 1998, GRANTED, Pat. No. US 6313081 A 371 of International Ser. No. WO 1995-EP9601755, filed on 26 Apr 1995, UNKNOWN

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1995-201115	19950428

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HENKEL CORPORATION, 2500 RENAISSANCE BLVD, STE 200, GULPH MILLS, PA, 19406
NUMBER OF CLAIMS: 13
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 7 Drawing Page(s)
LINE COUNT: 920
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Laundry ***detergent*** compositions containing one or more cellulases having a ratio of tensile strength loss to antipilling properties of less than 1. The cellulases may be obtained from CBS 9.93 or CBS 670.93.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 12 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2002:157103 USPATFULL <<LOGINID::20070716>>
TITLE: Novel cellulase producing actinomycetes, cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, NETHERLANDS
Van Der Kleij, Wilhelmus A.H., Naaldwijk, NETHERLANDS
Van Solingen, Piet, Naaldwijk, NETHERLANDS
Weyler, Walter, San Francisco, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2002081702	A1	20020627
	US 6566112	B2	20030520
APPLICATION INFO.:	US 2001-795583	A1	20010227 (9)

RELATED APPLN. INFO.: Division of Ser. No. US 1999-321981, filed on 28 May 1999, PENDING Continuation-in-part of Ser. No. US 1998-104308, filed on 24 Jun 1998, GRANTED, Pat. No. US 6187577 Continuation-in-part of Ser. No. US 1997-974042, filed on 19 Nov 1997, ABANDONED
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: Genencor International, Inc., 925 Page Mill Road, Palo Alto, CA, 94304
NUMBER OF CLAIMS: 30
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Page(s)
LINE COUNT: 1947
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is predicable by an Actinomycete. The cellulase has an approximate calculated molecular weight of 36 kD and has a pH optimum at 40.degree. C. of 8 and at 60.degree. C. of 7. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 13 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2002:148649 USPATFULL <<LOGINID::20070716>>
TITLE: Novel cellulase producing actinomycetes, cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, NETHERLANDS
van der Kleij, Wilhelmus A.H., Dentlaaq, NETHERLANDS
van Solingen, Piet, Naaldwijk, NETHERLANDS
Weyler, Walter, San Francisco, CA, UNITED STATES
Goedegebuur, Frits, Vlaardingen, NETHERLANDS

NUMBER KIND DATE

PATENT INFORMATION: US 2002076792 A1 20020620
US 6562612 B2 20030513
APPLICATION INFO.: US 2000-739861 A1 20001218 (9)
RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1999-321981, filed on 28 May 1999, GRANTED, Pat. No. US 6287839
Continuation-in-part of Ser. No. US 1998-104308, filed on 24 Jun 1998, GRANTED, Pat. No. US 6187577
Continuation-in-part of Ser. No. US 1997-974042, filed on 19 Nov 1997, ABANDONED
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: VICTORIA L. BOYD, GENENCOR INTERNATIONAL, INC., 925 PAGE MILL ROAD, PALO ALTO, CA, 94304-1013
NUMBER OF CLAIMS: 39
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 22 Drawing Page(s)
LINE COUNT: 2081
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is produced by an Actinomycete. The cellulase has an approximate calculated molecular weight of 36 kD and has a pH optimum at 40.degree. C. of 8 and at 60.degree. C. of 7. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 14 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:196979 USPATFULL <<LOGINID::20070716>>
TITLE: Detergents comprising cellulases
INVENTOR(S): Lenting, Hermanus Bernardus Maria, VT Pijnacker, Netherlands
Van Beckhoven, Rudolf Franciscus Wilhelmus Cornelis, EK Breda, Netherlands
Maurer, Karl-Heinz, Erkrath, Germany, Federal Republic of
Kottwitz, Beatrix, Duesseldorf, Germany, Federal Republic of
Weiss, Albrecht, Langenfeld, Germany, Federal Republic of
Van Solingen, Pieter, VZ Naaldwijk, Netherlands
PATENT ASSIGNEE(S): Henkel Kommanditgesellschaft auf Aktien (KGaA), Duesseldorf, Germany, Federal Republic of (non-U.S. corporation)

NUMBER KIND DATE

PATENT INFORMATION: US 6313081 B1 20011106
WO 9634092 19961031
APPLICATION INFO.: US 1998-945574 19980227 (8)
WO 1995-EP9601755 19950426
19980227 PCT 371 date
19980227 PCT 102(e) date

NUMBER DATE

PRIORITY INFORMATION: EP 1995-201115 19950428
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Douyon, Lorna M.
LEGAL REPRESENTATIVE: Jaeschke, Wayne C., Murphy, Glenn E. J.
NUMBER OF CLAIMS: 4
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 2 Drawing Page(s)
LINE COUNT: 764
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A laundry ***detergent*** ***composition*** comprises a cellulase having a ratio of tensile strength loss to antipilling properties of less than 1. A method of laundering cotton-containing

fabrics with the ***composition*** is also disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 15 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:163036 USPATFULL <<LOGINID::20070716>>
TITLE: Compositions and methods for treating cellulose containing fabrics using truncated cellulase enzyme compositions
INVENTOR(S): Farrington, Graham K., Acton, MA, United States
Anderson, Paige, Medford, MA, United States
Bergquist, Peter, Chatswood, Australia
Daniels, Roy, Hamilton, New Zealand
Gibbs, Moreland David, Lane Cove, Australia
Morgan, Hugh, Hamilton, New Zealand
Williams, Diane P., Hopkinton, MA, United States
PATENT ASSIGNEE(S): Clariant Finance (BVI) Limited, Tortola, Virgin Islands (British) (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6294366	B1	20010925
APPLICATION INFO.:	US 1998-136574		19980819 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-932571, filed on 19 Sep 1997, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED
PRIMARY EXAMINER: Weber, Jon P.
LEGAL REPRESENTATIVE: Pfeiffer, Hesna J., Hanf, Scott E
NUMBER OF CLAIMS: 1
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 27 Drawing Figure(s); 20 Drawing Page(s)
LINE COUNT: 1582
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB Alkalophilic and thermophilic cellulases having high stability to elevated temperatures and pH have been isolated from an organism of unknown species, which most closely resembles those in the Caldicellulosiruptor genus and which has been called by us, Tok7B.1, These cellulases have been cloned and expressed in a recombinant system, so that they can be produced in quantity. These are particularly useful in treating cellulosic materials including cotton-containing fabrics, as ***detergent*** additives, and in aqueous compositions. We also provide genomic DNA which can be used in recombinant expression vectors and expression systems to produce enhanced alkali and/or temperature stability properties in cellulases other than those specifically described.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 16 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:152747 USPATFULL <<LOGINID::20070716>>
TITLE: Cellulase producing actinomycetes, cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, Netherlands
Van Der Kleij, Wilhelmus A. H., Naaldwijk, Netherlands
Van Solingen, Piet, Naaldwijk, Netherlands
Weyler, Walter, San Francisco, CA, United States
PATENT ASSIGNEE(S): Genencor International, Inc., Palo Alto, CA, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6287839	B1	20010911
APPLICATION INFO.:	US 1999-321981		19990528 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1998-104308, filed on 24 Jun 1998, now patented, Pat. No. US 6187577
Continuation-in-part of Ser. No. US 1997-974042, filed on 19 Nov 1997, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: GRANTED

PRIMARY EXAMINER: Patterson, Jr., Charles L.
LEGAL REPRESENTATIVE: Genencor International
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 26 Drawing Figure(s); 18 Drawing Page(s)
LINE COUNT: 1733
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is predicable by an Actinomycete. The cellulase has an approximate calculated molecular weight of 36 kD and has a pH optimum at 40.degree. C. of 8 and at 60.degree. C. of 7. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 17 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:25664 USPATFULL <<LOGINID::20070716>>
TITLE: Cellulase producing actinomycetes, cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, Netherlands
Van Der Kleij, Wilhelmus A. H., Naaldwijk, Netherlands
Van Solingen, Piet, Naaldwijk, Netherlands
Weyler, Walter, San Francisco, CA, United States
PATENT ASSIGNEE(S): Genencor International, Inc., Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6190899	B1	20010220
APPLICATION INFO.:	US 1998-102204		19980622 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-974041, filed on 19 Nov 1997, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Patterson, Jr., Charles L.
LEGAL REPRESENTATIVE: Faris, Susan K., Marcus-Wyner, Lynn
NUMBER OF CLAIMS: 16
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1083
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is producible by an Actinomycete. The cellulase has an approximate calculated molecular weight of 35 kD and has a pH optimum at 40.degree. C. of 6 and at 60.degree. C. of 6 or less. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 18 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2001:22023 USPATFULL <<LOGINID::20070716>>
TITLE: Cellulase producing Actinomycetes cellulase produced therefrom and method of producing same
INVENTOR(S): Jones, Brian E., Leidschendam, Netherlands
Van Der Kleij, Wilhelmus A. H., Naaldwijk, Netherlands
Van Solingen, Piet, Naaldwijk, Netherlands
Weyler, Walter, San Francisco, CA, United States
PATENT ASSIGNEE(S): Genecor International, Inc., Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6187577	B1	20010213
APPLICATION INFO.:	US 1998-104308		19980624 (9)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1997-974042, filed on 19 Nov 1997, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Patterson, Jr., Charles L.

LEGAL REPRESENTATIVE: Faris, Susan K., Marcus-Wyner, LynnGenecor International, Incorporated
NUMBER OF CLAIMS: 12
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 6 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1059
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A novel cellulase ***composition*** is provided which is producible by an Actinomycete. The cellulase has an approximate calculated molecular weight of 36 kD and has a pH optimum at 40.degree. C. of 8 and at 60.degree. C. of 7. Also provided is a DNA encoding said cellulase, a method for producing the cellulase and applications thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 19 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2000:61427 USPATFULL <<LOGINID::20070716>>
TITLE: Alkaline cellulase and method of producing same
INVENTOR(S): Van Solingen, Pieter, Naaldwijk, Netherlands
PATENT ASSIGNEE(S): Genencor International, Inc., Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6063611		20000516
	WO 9734005		19970918
APPLICATION INFO.:	US 1997-732433		19970318 (8)
	WO 1996-US5651		19960426
			19970418 PCT 371 date
			19970418 PCT 102(e) date

RELATED APPLN. INFO.: Continuation of Ser. No. US 1996-614115, filed on 12 Mar 1996, now abandoned
DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Sisson, Bradley L.
ASSISTANT EXAMINER: Stole, Einar
LEGAL REPRESENTATIVE: Stone, Christopher L., Faris, Susan
NUMBER OF CLAIMS: 9
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 2 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 638
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a novel cellulase ***composition*** obtainable from Bacillus sp. CBS 669.93. A preferred cellulase has a calculated molecular weight of approximately 63 kD, a calculated isoelectric point of about 5 and a pH optimum on CMC of about 6 at 40.degree. C. and 60.degree. C.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 20 OF 24 USPATFULL on STN
ACCESSION NUMBER: 2000:37632 USPATFULL <<LOGINID::20070716>>
TITLE: Endoglucanase
INVENTOR(S): Bjornvad, Mads Eskelund, Frederiksberg, Denmark
Schulein, Martin, Copenhagen, Denmark
Norrevang, Iben Angelica, Hillerod, Denmark
PATENT ASSIGNEE(S): Novo Nordisk A/S, Bagsvaerd, Denmark (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 6043075		20000328
APPLICATION INFO.:	US 1997-995280		19971219 (8)

	NUMBER	DATE
PRIORITY INFORMATION:	DK 1996-1483	19961220

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Prouty, Rebecca E.

ASSISTANT EXAMINER: Slobodyansky, Elizabeth
LEGAL REPRESENTATIVE: Zelson, Steve T., Gregg, Valeta
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
LINE COUNT: 1448
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB An endoglucanase obtainable from Dictyoglomus exhibiting optimum activity at a temperature above 85.degree. C. is disclosed.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 21 OF 24 USPATFULL on STN
ACCESSION NUMBER: 1999:21543 USPATFULL <<LOGINID::20070716>>
TITLE: Mutant Thermonospora spp. cellulase
INVENTOR(S): Goedegebuur, Frits, Vloordingen, Netherlands
Power, Scott D., San Bruno, CA, United States
Winetzky, Deborah, Foster City, CA, United States
Van Kimmenade, Anita, San Bruno, CA, United States
Yoon, Mee-Young, Palo Alto, CA, United States
PATENT ASSIGNEE(S): Genencor International, Inc., Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5871550		19990216
APPLICATION INFO.:	US 1997-924440		19970826 (8)

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Fries, Kery
LEGAL REPRESENTATIVE: Stone, Christopher L.
NUMBER OF CLAIMS: 11
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 5 Drawing Figure(s); 4 Drawing Page(s)
LINE COUNT: 1297
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A mutant cellulase obtainable from Thermomonospora spp is provided which differs from a precursor cellulase in that it has been genetically engineered to introduce a substitution, deletion or addition of an amino acid residue to said precursor cellulase which provided improved activity in a ***detergent*** . Preferably, the substitution is at a residue corresponding to T140 in Thermomonospora fusca.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 22 OF 24 USPATFULL on STN
ACCESSION NUMBER: 1999:1503 USPATFULL <<LOGINID::20070716>>
TITLE: Alkaline cellulase and method of producing same
INVENTOR(S): Van Solingen, Pieter, Naaldwijk, Netherlands
PATENT ASSIGNEE(S): Genencor International, Rochester, NY, United States (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5856165		19990105
	WO 9634108		19961031
APPLICATION INFO.:	US 1997-727548		19970604 (8)
	WO 1996-US5652		19960426
			19970604 PCT 371 date
			19970604 PCT 102(e) date

	NUMBER	DATE
PRIORITY INFORMATION:	EP 1995-201115	19950428

DOCUMENT TYPE: Utility
FILE SEGMENT: Granted
PRIMARY EXAMINER: Wax, Robert A.
ASSISTANT EXAMINER: Longton, Enrique D.
LEGAL REPRESENTATIVE: Stone, Christopher L.
NUMBER OF CLAIMS: 5
EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 3 Drawing Figure(s); 3 Drawing Page(s)
LINE COUNT: 558
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention provides a novel cellulase ***composition*** obtainable from Bacillus sp. CBS 670.93. A preferred cellulase has a calculated molecular weight of approximately 50 kD, a calculated isoelectric point of about 4 and a pH optimum on CMC of about 6-10 at 40.degree. C. and about 7 at 60.degree. C.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L10 ANSWER 23 OF 24 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN
ACCESSION NUMBER: 1999-347482 [29] WPIDS
CROSS REFERENCE: 1999-347481; 2000-224344; 2002-499737
DOC. NO. CPI: C1999-102268 [29]
TITLE: Cellulase from Actinomycetes
DERWENT CLASS: D11; D13; D16; D17; D25; F06; F09
INVENTOR: JONES B; JONES B E; VAN DER KLEIJ W; VAN DER KLEIJ W A H; VAN SOLINGEN P; WEYLER W; JONES E; VAN DER KLEIJ A
PATENT ASSIGNEE: (GEMV-C) GENENCOR INT INC
COUNTRY COUNT: 81

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 9925847	A2	19990527	(199929)*	EN	36[6]	
AU 9915908	A	19990607	(199943)	EN		
EP 1034280	A2	20000913	(200046)	EN		
US 6190899	B1	20010220	(200112)	EN		
KR 2001032218	A	20010416	(200163)	KO		
JP 2001523464	W	20011127	(200204)	JA	45	
EP 1034280	B1	20060531	(200637)	EN		
DE 69834741	E	20060706	(200648)	DE		
ES 2267200	T3	20070301	(200719)	ES		
DE 69834741	T2	20070503	(200731)	DE		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9925847	A2	WO 1998-US24650	19981118
US 6190899	B1 CIP of	US 1997-974041	19971119
US 6190899	B1	US 1998-102204	19980622
DE 69834741	E	DE 1998-634741	19981118
EP 1034280	A2	EP 1998-960266	19981118
EP 1034280	B1	EP 1998-960266	19981118
DE 69834741	E	EP 1998-960266	19981118
ES 2267200	T3	EP 1998-960266	19981118
EP 1034280	A2	WO 1998-US24650	19981118
JP 2001523464	W	WO 1998-US24650	19981118
EP 1034280	B1	WO 1998-US24650	19981118
DE 69834741	E	WO 1998-US24650	19981118
AU 9915908	A	AU 1999-15908	19981118
JP 2001523464	W	JP 2000-521212	19981118
KR 2001032218	A	KR 2000-705414	20000518
DE 69834741	T2	DE 1998-634741	19981118
DE 69834741	T2	EP 1998-960266	19981118
DE 69834741	T2	WO 1998-US24650	19981118

FILING DETAILS:

PATENT NO	KIND		PATENT NO	
DE 69834741	E	Based on	EP 1034280	A
ES 2267200	T3	Based on	EP 1034280	A
AU 9915908	A	Based on	WO 9925847	A
EP 1034280	A2	Based on	WO 9925847	A
JP 2001523464	W	Based on	WO 9925847	A
EP 1034280	B1	Based on	WO 9925847	A

DE 69834741 E Based on WO 9925847 A
DE 69834741 T2 Based on EP 1034280 A
DE 69834741 T2 Based on WO 9925847 A

PRIORITY APPLN. INFO: US 1998-102204 19980622
US 1997-974041 19971119
US 1997-974042 19971119
AN 1999-347482 [29] WPIDS
CR 1999-347481; 2000-224344; 2002-499737
AB WO 1999025847 A2 UPAB: 20050521
NOVELTY - Cellulase (I) having a 352 amino acid (aa) sequence (1), reproduced, and its active derivatives.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(a) DNA (II) encoding (I);
(b) recombinant production of (I);
(c) identifying DNA encoding a microbial cellulase using (II), or part of it, as hybridization probe; and
(d) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stone washing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper. They may also be used (not claimed) as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60degreesC than at 40 degreesC.

Member(0003)
ABEQ EP 1034280 A2 UPAB 20050521
NOVELTY - Cellulase (I) having a 352 amino acid (aa) sequence (1), reproduced, and its active derivatives.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(a) DNA (II) encoding (I);
(b) recombinant production of (I);
(c) identifying DNA encoding a microbial cellulase using (II), or part of it, as hybridization probe; and
(d) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stone washing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper. They may also be used (not claimed) as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60degreesC than at 40 degreesC.

Member(0004)
ABEQ US 6190899 B1 UPAB 20050521
NOVELTY - Cellulase (I) having a 352 amino acid (aa) sequence (1), reproduced, and its active derivatives.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(a) DNA (II) encoding (I);
(b) recombinant production of (I);
(c) identifying DNA encoding a microbial cellulase using (II), or part of it, as hybridization probe; and
(d) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stone washing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper. They may also be used (not claimed) as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60degreesC than at 40 degreesC.

L10 ANSWER 24 OF 24 WPIDS COPYRIGHT 2007 THE THOMSON CORP on STN
ACCESSION NUMBER: 1999-347481 [29] WPIDS
CROSS REFERENCE: 1999-347482; 2000-224344; 2002-499737
DOC. NO. CPI: C1999-102267 [29]
TITLE: New Actinomycete cellulase useful in ***detergent*** compositions, in animal feeds and in treatment of textiles
DERWENT CLASS: D13; D16; D17; D25; F06; F09
INVENTOR: JONES B E; VAN DER KLEIJ W A H; VAN SOLINGEN P; VAN SOLLINGEN P; WEYLER W; JONES E; VAN DER KLEIJ A
PATENT ASSIGNEE: (GEMV-C) GENENCOR INT INC
COUNTRY COUNT: 81

PATENT INFO ABBR.:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
WO 9925846	A2	19990527	(199929)*	EN	35	[6]
AU 9914190	A	19990607	(199943)	EN		
EP 1032686	A2	20000906	(200044)	EN		
US 6187577	B1	20010213	(200111)	EN		
KR 2001032219	A	20010416	(200163)	KO		
JP 2001523463	W	20011127	(200204)	JA	46	
NZ 504197	A	20020301	(200224)	EN		
AU 749780	B	20020704	(200255)	EN		
EP 1032686	B1	20050309	(200519)	EN		
DE 69829308	E	20050414	(200525)	DE		
JP 3661995	B2	20050622	(200541)	JA	23	
DE 69829308	T2	20060511	(200635)	DE		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9925846	A2	WO 1998-US24649	19981118
US 6187577	B1 CIP of	US 1997-974042	19971119
US 6187577	B1	US 1998-104308	19980624
DE 69829308	E	DE 1998-629308	19981118
EP 1032686	A2	EP 1998-958079	19981118
EP 1032686	B1	EP 1998-958079	19981118
DE 69829308	E	EP 1998-958079	19981118
NZ 504197	A	NZ 1998-504197	19981118
EP 1032686	A2	WO 1998-US24649	19981118
JP 2001523463	W	WO 1998-US24649	19981118
NZ 504197	A	WO 1998-US24649	19981118
EP 1032686	B1	WO 1998-US24649	19981118
DE 69829308	E	WO 1998-US24649	19981118
JP 3661995	B2	WO 1998-US24649	19981118
AU 9914190	A	AU 1999-14190	19981118
AU 749780	B	AU 1999-14190	19981118
JP 2001523463	W	JP 2000-521211	19981118
JP 3661995	B2	JP 2000-521211	19981118
KR 2001032219	A	KR 2000-705415	20000518
DE 69829308	T2	DE 1998-629308	19981118
DE 69829308	T2	EP 1998-958079	19981118
DE 69829308	T2	WO 1998-US24649	19981118

FILING DETAILS:

PATENT NO	KIND		PATENT NO	
AU 749780	B	Previous Publ	AU 9914190	A
DE 69829308	E	Based on	EP 1032686	A
JP 3661995	B2	Previous Publ	JP 2001523463	W
AU 9914190	A	Based on	WO 9925846	A
EP 1032686	A2	Based on	WO 9925846	A
JP 2001523463	W	Based on	WO 9925846	A
NZ 504197	A	Based on	WO 9925846	A
AU 749780	B	Based on	WO 9925846	A

EP 1032686 B1 Based on WO 9925846 A
DE 69829308 E Based on WO 9925846 A
JP 3661995 B2 Based on WO 9925846 A
DE 69829308 T2 Based on EP 1032686 A
DE 69829308 T2 Based on WO 9925846 A

PRIORITY APPLN. INFO: US 1998-104308 19980624
US 1997-974041 19971119
US 1997-974042 19971119
AN 1999-347481 [29] WPIDS
CR 1999-347482; 2000-224344; 2002-499737
AB WO 1999025846 A2 UPAB: 20060115
NOVELTY - Cellulase (I) having a 371 amino acid (aa) sequence (S1), given in the specification and its active derivatives, is new.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) DNA (S2) encoding (I);
(2) recombinant production of (I);
(3) identifying DNA encoding a microbial cellulase using (S2), or part of it, as hybridization probe; and
(4) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stonewashing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper (claimed). They may also be used as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60 degrees Centigrade than at 40 degrees Centigrade.

Member(0003)
ABEQ EP 1032686 A2 UPAB 20060115
NOVELTY - Cellulase (I) having a 371 amino acid (aa) sequence (S1), given in the specification and its active derivatives, is new.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) DNA (S2) encoding (I);
(2) recombinant production of (I);
(3) identifying DNA encoding a microbial cellulase using (S2), or part of it, as hybridization probe; and
(4) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stonewashing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper (claimed). They may also be used as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).
ADVANTAGE - (I) is active at pH 5-10 and is more active at 60 degrees Centigrade than at 40 degrees Centigrade.

Member(0004)
ABEQ US 6187577 B1 UPAB 20060115
NOVELTY - Cellulase (I) having a 371 amino acid (aa) sequence (S1), given in the specification and its active derivatives, is new.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:
(1) DNA (S2) encoding (I);
(2) recombinant production of (I);
(3) identifying DNA encoding a microbial cellulase using (S2), or part of it, as hybridization probe; and
(4) ***detergent*** ***composition*** containing (I).
USE - (I) are used in ***detergent*** compositions; as animal feeds (to increase nutritional value); and in treatment of textiles (e.g. stonewashing or modifying texture, feel and/or appearance of cellulosic fabrics, including removal of 'immature' or 'dead' cotton), pulp (to improve draining) and paper (claimed). They may also be used as baking additives, for treating starch (in production of high-fructose corn syrup or ethanol) and for treating grain (to reduce fiber during milling).

ADVANTAGE - (I) is active at pH 5-10 and is more active at 60 degrees Centigrade than at 40 degrees Centigrade.

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L1 QUE (CELLULASE OR ENDOGLUCANASE OR GLUCANASE)

FILE 'CAPLUS, BIOSIS, SCISEARCH, USPATFULL, CABA, LIFESCI, AGRICOLA, MEDLINE, EMBASE, WPIDS' ENTERED AT 17:15:46 ON 16 JUL 2007

L2 93672 S L1
L3 14539 S (GENE OR SEQUENCE OR POLYNUCLEOTIDE OR CLONE OR RECOMBINANT)
L4 1677 S BACILLUS (S) L3
L5 773 S EXPRESS? (S) L4
L6 341 S COLI (S) L5
L7 7 S COMPOSITION (S) L6
L8 69 S COMPOSITION AND L6
L9 24 S (DETERGENT OR (FEED (W) ADDITIVE)) AND L8
L10 24 DUP REM L9 (0 DUPLICATES REMOVED)

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